

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE R		PAGE OF PAGES 1 / 3	
2. AMENDMENT/MODIFICATION NO. P00137		3. EFFECTIVE DATE 14-May-2004		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (if applicable)	
6. ISSUED BY 45 CONSA/GCZL 1201 EDWARD H WHITE II ST PATRICK AFB FL 32925-3237		CODE FA2521		7. ADMINISTERED BY (if other than item 6) 45 CONSA/GCZL 1201 EDWARD H WHITE II ST PATRICK AFB FL 32925-3237		CODE FA2521	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) SVERDRUP TECHNOLOGY, INC. DAVE PICKERING 600 WILLIAM NORTHERN BLVD TULLAHOMA TN 37388				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. F08650-98-C-0035			
				X 10B. DATED (SEE ITEM 13) 23-Apr-1998			
CODE 07486		FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offer: <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (if required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 "Changes-Cost Reimbursement(Aug 87)(Alt II)(Apr 84)							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) See Schedule  POC: Lisa DeCarlo (321)494-7093 Email: Lisa.DeCarlo@patrick.af.mil							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Judith A. DeCarlo, Manager Contracts Pricing				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) JOHN H. HAMMERLING, CONTRACTING OFFICER john.hammerling@patrick.af.mil			
15B. CONTRACTOR OFFEROR (Signature of person authorized to sign) <i>Judith A. DeCarlo</i>		15C. DATE SIGNED 17 May 2004		16B. UNITED STATES OF AMERICA (Signature of Contracting Officer) <i>John H. Hammerling</i>		16C. DATE SIGNED 17 May 04	
EXCEPTION TO SF 30 APPROVED BY OIRM 11-84				STANDARD FORM 30 (Rev. 11-88) Prescribed by GSA FAR (48 CFR) 53.243			

Standard Form 30 (Block 14 continued)

A. The purpose of this supplemental agreement is to:

1. Incorporate Appendix C, Communications, into the Statement of Work. Appendix C identifies facilities where the contractor has communication systems O&M responsibilities. This adds communications support responsibilities for some facilities where the contractor does not have facility maintenance responsibility.
2. Make appropriate SOW changes to the Table of Contents, Appendix A, Appendix B, Appendix H, and Appendix K as necessary to reflect the addition of Appendix C.
3. This modification is under the authority of FAR 52.243-2, entitled "Changes-Cost Reimbursement (Aug 87)(Alt II)(Apr 84). As a result of this modification, there is no change in contract value.

## **B. PART I – THE SCHEDULE**

### **1. Section B – SUPPLIES OR SERVICES AND PRICES/COSTS**

SUMMARY OF CHANGES—"SUMMARY OF CHANGES FOR THE PAYMENT OFFICE"

Total Net Change to Section B: \$ -0-

### **2. Section J – STATEMENT OF WORK:**

Statement of Work pages revised to indicate changes:

- (1) SOW, pages i through xiii
- (2) SOW, pages 39, 49-52, 59-60
- (3) Appendix A, page A-1
- (4) Appendix A, page A-5 through A-11
- (5) Appendix A, page A-13
- (6) Appendix A, page A-13a
- (7) Appendix A, page A-14 through A-20
- (8) Appendix A, pages A-22 through A-23
- (9) Appendix A, page A-25 through A-43
- (10) Appendix B, page B-1 through B-2
- (11) Appendix C, pages C-1 through C-41
- (12) Appendix H, pages H-2, H-2a, H-3
- (13) Appendix K, pages K-2, K-7
- (14) Appendix K, pages K-42 through K-46

//////////////////////////////////// **END PAGE** //////////////////////////////////////

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## RWS to SOW Cross Reference Matrix

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3.1.1.1 Organization	3.1.1 Program Management
3.1.1.2 Safety	3.1.2 Safety
3.1.1.3 Work Breakdown Structure	3.1.1.4-2.1 Management Support Functions
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3.1.2 Planning and Requirements	3.1.4 Planning and Requirements
3.1.2.1 Preplanning Support	3.1.4.1 Preplanning Support
3.1.2.2 Requirements Development and Planning	3.1.4.2 Requirements Development and Planning
3.1.3 Financial Management	3.1.5 Financial Management
3.1.3.1 Cost Reporting and Accounting System	3.1.5 Financial Management
<b>3.2 Systems Management</b>	<b>3.2 Systems Management</b>
3.2.1 Interface Control Documents	3.2.1 Interface Control Documents
3.2.2 System Baseline	3.2.2 System Baseline
3.2.3 FMECA	3.2.3 FMECA
3.2.4 Safety Engineering	3.2.4 Safety Engineering
3.2.5 LSA	3.2.5 LSA
3.2.6 Operations and Maintenance Procedures	3.2.6 Operations and Maintenance Procedures
3.2.7 Systems Engineering and Configuration Management	3.2.7 Systems Engineering and Configuration Management
3.2.8 Modifications and Upgrades	3.2.8 Modifications and Upgrades
3.2.9 Material Review Board	3.2.9 Material Review Board
<b>3.3 Operations and Maintenance</b>	<b>3.3 Operations and Maintenance</b>
3.3.1 Systems Operations and Maintenance	3.3.2 Systems Operations and Maintenance
3.3.2 Operations and Maintenance Control	3.3.1 Operations and Maintenance Control
3.3.3 Mission Support	3.3.3 Mission Support
3.3.4 Testing, Pre-launch, and Launch Day Support	3.3.4 Testing, Pre-launch, and Launch Day Support
3.3.5 Schedules and Reports	3.3.5 Schedules and Reports
3.3.6 Maintenance Deferrals	3.3.6 Maintenance Deferrals
3.3.7 Facility Management	3.3.7 Facility Management
3.3.8 Disaster Preparedness	3.3.8 Disaster Preparedness
3.3.9 Communications	3.3.9 Launch Communications
3.3.10 Space Launch Complex Refurbishment Activities	3.3.10 Space Launch Complex Refurbishment Activities
3.3.11 Cleanrooms	3.3.11 Cleanrooms and Contamination Control
3.3.12 Cranes and Hoists	3.3.12 Cranes and Hoists

# RWS to SOW Cross Reference Matrix

(continued)

RWS Requirements	SOW Requirements
3.3.13 HVAC	3.3.13 HVAC
3.3.14 Low Voltage	3.3.14 Low Voltage
3.3.15 Online Lightning Monitoring System	3.3.15 Online Lightning Monitoring System
3.3.16 Facility Control Monitoring Systems	3.3.16 Facility Control Monitoring Systems
3.3.17 Elevators	3.3.17 Elevators
3.3.18 MST Traction Drive	3.3.18 MST Traction Drive
3.3.19 Structure	3.3.19 Structure
3.3.19.1 Corrosion Control	3.3.20 Corrosion Control
3.3.21 Deluge System/Overpressure Suppression System	3.3.21 Deluge System/Overpressure Suppression System
3.3.21 Fire Detection and Alarm Systems	3.3.22 Fire Detection and Alarm Systems
3.3.22 Railroad System	3.3.23 Railroad System
3.3.23 Access Control	3.3.24 Access Control
3.3.24 Propellant Vapor Detection	3.3.25 Propellant Vapor Detection
<b>3.4 Logistics</b>	<b>3.4 Logistics</b>
3.4.1 Service System Parts Inventory	3.4.1 Service System Parts Inventory
3.4.2 Supplies	3.4.2 Supplies
3.4.3 Shipping	3.4.3 Packaging/Shipping
<b>3.5 Facilities</b>	3.1.1.3 Property Management
3.5.1 Real Property	3.1.1.3 Property Management
3.5.2 Accessible Data	3.1.1.3 Property Management
<b>3.6 Quality Assurance Program</b>	<b>3.5 Quality Assurance Program</b>
3.6.1 Quality Program	3.5 Quality Assurance Program
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3.7.1 Ordnance Services	3.6.2 Ordnance Services
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3.7.1.11 U.S. Navy Waterfront Support	3.6.2-2.11 U.S. Navy Waterfront Support
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3.7.1.13 Security Support	3.6.2-2.13 Security Support
3.7.2 Operational Training and Badging	3.6.3 Operational Training and Badging

## RWS to SOW Cross Reference Matrix

(concluded)

RWS Requirements	SOW Requirements
3.7.3 Visitor Records Center	3.6.4 Visitor Records Center
3.7.4 Hazardous Commodity Administration	3.6.5 Hazardous Commodity Administration
<b>3.8 Operations Management</b>	3.1.6 Integrated Resource Management and Operations and 3.6 Operations Support
3.8.1 Integrated Resource Management	3.1.6 Integrated Resource Management
3.8.1.1 Spaceport Intranet Information System	3.1.6 Spaceport Intranet Information System
3.8.1.2 Resource Data Exchange Standard	3.1.6 Resource Data Exchange Standard
3.8.1.3 MOCC Support	3.1.6 MOCC Support
3.8.2 Mission Control Operations	3.10.2 Mission Control Operations
3.8.2.2 Mission Scripts	3.10.2.1 Mission Scripts
3.8.2.3 Launch Operations Handbook	3.10.2.2 Launch Operations Handbook
3.8.2.4 Network Configuration	3.10.2.3 Network Configuration
3.8.2.5 Scheduling	3.10.2.4 Scheduling
3.8.2.6 Operations of Mission Control Network	3.10.2.5 Operations of Mission Control Network

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## Acronyms

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ADP	Automated Data Processing
ADPL	Accessible Data Product List
BCE	Base Civil Engineer
BCS	Baseline Comparison System
BOC	Base Operations Contract
BSC	Base Support Contract
CCAS	Cape Canaveral Air Station
CDRL	Contract Data Requirements List
CFIS	Comptroller Financial Information System
CI	Configuration Item
CLIN	Contract Line Item Number
CLVM	Console Level Voice Matrices
CRAS	Cost Reporting and Accounting System
CWBS	Contract Work Breakdown Structure
DPF	DSCS Processing Facility
DSCS	Defense Satellite Communication System
ECP	Engineering Change Proposals
EELV	Evolved Expendable Launch Vehicle
ER	Eastern Range
FAC	Functional Area Chief
FAR	Federal Acquisition Regulation
FMECA	Failure Modes Effects and Criticality Analysis
FSO	Facility Security Officer
FY	Fiscal Year
HVAC	Heating, Ventilation, and Air Conditioning
ICD	Interface Control Document
IRM	Integrated Resource Management
ISM	Industrial Security Manual
ITL	Integrate and Transfer Launch
JOCAS	Job Order Cost Accounting System
JON	Job Order Number
JOP	Joint Operating Procedure
KSC	Kennedy Space Center
LBO	Launch Base Operations
LBS	Launch Base Support
LBTP	Launch Base Test Plans
LO&SC	Launch Operations and Support Contract
LOCC	Launch Operations Control Center
LOSC	Launch Operations Support Contract
LSA	Logistics Support Analysis
LSAP	Logistics Support Analysis Plan
LSAR	Logistics Support Analysis Record

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## Acronyms

(concluded)

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LSF	Launch Support Facility
LSIC	Launch Systems Integration Contract
MAN	Metropolitan Area Network
MIS	Missile Inert Storage
MLV III	Medium Launch Vehicle III
MOCC	Maintenance and Operations Coordination Center
MPICD	Mission Peculiar Interface Control Document
MST	Mobile Service Tower
NPF	NAVSTAR Processing Facility
NSSF	NAVSTAR Satellite Storage Facility
O&M	Operations and Maintenance
OD	Operational Directive
OI	Operational Instruction
OR	Operational Requirements
OSHA	Occupational Safety and Health Administration
PCF	Propellant Conditioning Facility
PI	Program Introduction
PLFCB	Payload Fairing Cleaning Building
PRD	Program Requirement Documents
PSC	Payload Support Contract
PSF	Propellant Servicing Facility
RCM	Reliability Centered Maintenance
RIS	Receipt-Inspection Shop
ROCC	Range Operations Control Center
RSA	Range Standardization and Automation
RWS	Representative Work Statement
SAB	Satellite Assembly Building
SBSS	Standard Base Supply System
SEMP	Systems Engineering Master Plan
SLC	Space Launch Complex
SLFM	Space Launch Facilities Manuals
SLS	Space Launch Squadron
SMAB	Solid Motor Assembly Building
SMARF	Solid Motor Assembly and Receiving Facility
SPIF	Spacecraft Processing and Integration Facility
SRS	Segment Ready Storage Building
STS	Space Transportation System
SW	Space Wing
UDS	Universal Documentation System
VIB	Vertical Integration Building
VRC	Visitor Records Center
WIMS	Work Information Management System



### 3.3.9 Reserved

### 3.3.10 Space Launch Complex Refurbishment Activities

**3.3.10-1 Requirements** – The contractor shall plan, prepare, and execute maintenance activities for times when no vehicle is on the launch complex. This includes post-launch activities through next vehicle arrival. The contractor shall schedule and ensure modifications occur during refurbishment periods, if necessary. Activities that have vehicle constraints, like corrosion control efforts, must be completed to meet constraints.

**3.3.10-2 Standards of Performance** – The standards of performance are shown in Figure 3.3.10.

<b>Figure 3.3.10 Standards of Performance – Space Launch Complex Refurbishment Activities</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Refurbishment support	Refurbishment, modification, and corrosion control activities are successfully completed in time to support the next scheduled launch.	Review of Operations and Maintenance Procedures for Service Systems (ADPL 024) and Control Plan for Operations and Maintenance (ADPL 035).

### 3.3.11 Cleanrooms and Contamination Control

**3.3.11-1 Requirements** – The contractor shall provide janitorial support to the cleanrooms identified in Appendix A and Appendix I.

<b>Figure 3.5 Standards of Performance – Quality Assurance Program</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
QA Program	QA Plan and programs meet the intent and requirements of ANSI/ASQC 9001. Mission and operational requirements are not adversely impacted by quality related performance.	Review and evaluation of implementing procedures. Annual review of work process and product conformance verifications. Periodic review of MRB documentation.
Inspection services	Required inspections that satisfy all quality requirements are scheduled and conducted in a timely manner. Reports of findings are accurately recorded and submitted.	Records review. Customer feedback.

### **3.6 Operations Support**

#### **3.6.1 Deleted**

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### **3.6.2 Ordnance Services**

**3.6.2-1 Requirements** – The contractor shall perform all tasks related to management and control of Ordnance Services at the CCAS and other locations identified in Appendix A-12 and Appendix J. The Contractor shall receive ordnance materials; perform ordnance material condition inspections; store, maintain, modify, test, and check ordnance materials; issue ordnance materials and transport ordnance materials and items. The contractor shall perform off-site pickup and delivery services for Kennedy Space Center (KSC) and Eastern Range (ER) ordnance arriving at any of the following locations – Space Coast Executive Airport, Melbourne and Orlando, FL air terminals, and other points within 100 miles of the local area. Additionally,

### **3.9 Atlas Caretaker Status For CX-36A, Facility 5500 (from 17 January 2002 through 30 September 2002)**

**3.9.1 Requirements** – Cx-36A facilities are to be maintained in a “caretaker” status. Caretaker status maintenance is that minimum maintenance that is required to ensure all critical systems and facilities are capable of supporting processing and launch when given a six month launch notification.

**3.9.2 Narrative Description** – The contractor shall:

3.9.2-1 Perform all preventive and corrective maintenance necessary to ensure all critical systems at CX-36A are capable of supporting the processing and launch of an Atlas II vehicle when given six months notification by the government of a launch day requirement.

3.9.2-2 Perform Facility Management responsibilities per paragraph 3.3.7.

3.9.2-3 Perform systems engineering, to include any modifications and upgrades, necessary in support of the six month launch requirement.

3.9.2-4 Maintain all communications equipment necessary in support of ongoing maintenance, safety, security, or environmental requirements (See Appendix C).

3.9.2-5 Notify the government of any requests for maintenance actions above those specified as caretaker status requirements.

**3.9.3 Standards of Performance** - The standard of performance are shown in Figure 3.9.1.

<b>Figure 3.9.1 Standards of Performance – CX-36A Caretaker Status</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
O&M of facilities and systems critical to launch operations	Facilities and systems are maintained to ensure all processing and launch requirements are met.	User and customer feedback.

### **3.10 Launch Communications**

The contractor shall establish and maintain launch communications as identified below. These functions are separate and distinct from the Systems Management and Operation and Maintenance functional areas of responsibility on the LO&SC. Communication processes and procedures will take priority where conflicts appear with other paragraphs within the Statement of Work as they relate to communication systems only. Although all communication systems are identified in Appendix C, the systems may or may not be critical and are listed only to identify available systems within a facility (See Appendix C.)

### 3.10.1 Communications

**3.10.1.1 Requirements** – The contractor shall survey, design, engineer, draft, install, maintain and repair all communication cabling (includes fiber optics), circuits, wiring, conduits and equipment/systems end-items (instruments) as identified in Appendix C. Interfaces will be the nearest line demarcation point to the facility or launch complex fence line. The contractor is also responsible for the repair, or turn-in and replacement of Mission Console headsets and Explosion Proof headsets.

**3.10.1.2 Standards of Performance** – The standards of performance are shown in Figure 3.10.1.

Figure 3.10.1 Standards of Performance – Communications			
Key Required Services	Performance Standard	Method of Surveillance	
Communications support	Communications systems are maintained in a state of readiness and availability that meets all operational requirements including emergency notification capability.	Mission Readiness Reviews. Communications support of test, pre-launch, and launch missions. Facility readiness inspections.	

**3.10.2 Mission Control Operations** – The contractor shall establish the configuration of a mission control network for core vehicle roll to pad, upper stage mate, facility verification, satellite vehicle mate, terminal countdown demonstration, training simulation, network simulation, combined systems test, wet dress rehearsal, integrated crew exercise, dress rehearsal and launch operations per 3.10.2.5. The mission control network consists of the communications links (secure and non-secure voice, data and fax circuits) within the Eastern Range and between inter-range facilities. The contractor shall coordinate mission documentation and test/launch operations with supporting agencies. The contractor shall develop a production schedule for the mission documentation that provides adequate time for coordination and review. The contractor shall also conduct periodic status reviews to surface items that require resolution or to highlight impediments to the document build process. The contractor shall support mission operations working groups.

#### 3.10.2.1 Mission Scripts

**3.10.2.1-1 Requirements** – The contractor shall develop and maintain supporting mission scripts for payload operations to supplement the Final Countdown Document (0F/02, CTP) or applicable MLV or STS mission documentation. Include specific items as identified in LO&SC Accessible Data Product Description in Appendix K. (ADP 063)

**3.10.2.1-2 Standards of Performance** – The standards of performance are shown in Figure 3.10.2.1.

<b>Figure 3.10.2.1 Standards of Performance – Mission Scripts</b>			
<b>Key Services</b>	<b>Required</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Develop and maintain Mission Scripts for payload operations		Mission scripts contain all required activities and mission events. Scripts are coordinated with all appropriate agencies and are submitted in time for review and preparation for launch.	Review of Mission Scripts (ADP 063).

### **3.10.2.2 Launch Operations Handbook**

**3.10.2.2-1 Requirements** – The contractor shall develop and maintain a launch operations handbook for launch team members. Develop or incorporate specific items as identified in LO&SC Accessible Data Product Description in Appendix K. (ADP 064)

**3.10.2.2-2 Standards of Performance** – The standards of performance are shown in Figure 3.10.2.2.

<b>Figure 3.10.2.2 Standards of Performance – Launch Operations Handbook</b>			
<b>Key Services</b>	<b>Required</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Launch Operations Handbook		Prior to publication, the contents of Launch Operations Handbooks are coordinated with all appropriate agencies. Submittals are made on time and contain all required information in clearly presented formats.	Review of Launch Operations Handbook (ADP 064).

### **3.10.2.3 Network Configuration**

**3.10.2.3-1 Requirements** – The contractor shall coordinate changes to configuration for the mission control network. (ADP 065 and 066)

#### **3.10.2.3-2 Narrative Description**

**3.10.2.3-2.1** The contractor shall prepare Console Level Voice Matrices (CLVM) for the facilities identified by the Program Management Office (Reference Appendix B).

**3.10.2.3-2.2** The contractor shall ensure all range users voice communication requirements are identified and their respective consoles are properly configured prior to needed tests and operations. Requirements will be identified through the review of UDS products and by way of direct interface with range users. Consoles will be grouped based on functionality of the users and the configuration standardized where possible to allow relocation of personnel, without loss of communication capabilities, during outages and last minute changes.

**3.10.2.3-2.3** The contractor shall establish a logical method for the placement of voice nets on the consoles to enhance the familiarization of consoles for users typically not operating consoles. The contractor shall ensure the methodology is as easy to change as possible.



**3.10.2.3-2.4** The contractor shall review Program Requirements Document (PRDs), Operational Requirements (ORs), Operational Directives (ODs), and supporting instructional messages to ensure availability and adequacy of communication data and voice systems.

**3.10.2.3-2.5** The contractor shall coordinate and execute, as required, OR expedites and UDS documentation modifications to account for mission changes.

**3.10.2.3-2.6** The contractor shall develop a consolidated seating plan for the facilities identified by the Program Management Office (Reference Appendix B).

**3.10.2.3-3 Standards of Performance** – The standards of performance are shown in Figure 3.10.2.3.

<b>Figure 3.10.2.3 Standards of Performance – Network Configuration</b>			
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>	
Prepare CLVMs and Seating Plans	CLVMs are prepared with flexibility to support changes, while satisfying all communications requirements with user-friendly configurations.	Review of CLVMs and Seating Plans.	
Identify Communication Requirements and Configure Consoles	Communication capabilities and console configurations meet mission requirements. Consoles are logically grouped to best meet mission requirements.	Review of Console Level Voice Matrix (ADP 065) and Seating Plan (ADP 066).	
Review and Satisfy PRDs, ORs, ODs, and other UDS documents	CLVMs, communications support, and Seating Plans are properly coordinated and structured to support the requirements of PRDs, ORs, ODs, and OR expedites.	Review of Console Level Voice Matrix (ADP 065) and Seating Plan (ADP 066).	

### **3.10.2.4 Scheduling**

**3.10.2.4-1 Requirements** – The contractor shall schedule, with government approval, required range assets for mission support operations.

**3.10.2.4-2 Standards of Performance** – The standards of performance are shown in Figure 3.10.2.4.

<b>Figure 3.10.2.4 Standards of Performance – Scheduling</b>		
<b>Key Required Services</b>	<b>Performance Standard</b>	<b>Method of Surveillance</b>
Range scheduling	Range schedule requests for mission support operations are prepared in a timely manner. Schedule requests are prepared through complete coordination with all involved agencies and organizations. Schedule requests are prepared in accordance with 45th SWR 55-10. Comprehensive consideration is given to PRDs, ORs, and ODs.	Review of range schedule requests.

### **3.10.2.5 Operation of Mission Control Network**

**3.10.2.5-1 Requirements** – The contractor shall provide real-time support for the mission control network in support of DoD and Commercial launches as requested by the Program Management Office.

### 3.10.2.5-2 Narrative Description

**3.10.2.5-2.1** The contractor shall coordinate and troubleshoot with the Eastern Range, off-site support locations, and user contractors.

**3.10.2.5-2.2** The contractor shall provide on-console network validation and network operations support before and/or during the mission event per Appendix B.

**3.10.2.5-2.3** The contractor shall train users in the operation of designated communications equipment. (See Appendix C.)

**3.10.2.5-3 Standards of Performance** – The standards of performance are shown in Figure 3.10.2.5.

Figure 3.10.2.5 Standards of Performance – Operation of Mission Control Network			
Key Services	Required	Performance Standard	Method of Surveillance
Mission control network support		Coordination with all involved agencies ensures effective use of mission control network. Effective troubleshooting maximizes the availability of the network. Effective and timely training of network users supports mission success.	Monitoring of network performance and network availability. Review of network and communications training programs.

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## Appendix A – Spacecraft/Launch Service Systems

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### 1.0 Purpose and Scope

This appendix identifies the critical facilities, systems, and equipment comprising spacecraft/launch service systems at Cape Canaveral Air Station. Other facilities, systems, and/or equipment may be added as mission requirements develop or change. All systems identified are to be operated, maintained, certified, configuration controlled, and sustained by the contractor, unless otherwise noted.

### Appendix A-1 – Systems/Equipment Definitions

#### Systems/Equipment Database Definitions

**Communication** - Deleted (See Appendix C)

#### Electrical

- **Grounding** – Technical, facility, and lightning grounding. Includes installed grids, receptacles, bus bars, down conductors, air terminal, and ground rods which make up equipment, technical, and static grounds; also includes conductive tile, conductive coatings, bonding, and grounding.
- **High Voltage** – All systems/components above 480V.

<b>Figure A-2-1 Spacecraft Critical Facilities Database</b>		
<b>DSCS Processing Facility – Facility 55820</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	CCTV	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Oxygen Hazard Monitoring	
Environmental	HVAC	
Environmental	Propellant Vapor Detection	
Environmental	Cleanroom	
Environmental	Fire Protection	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Gaseous Nitrogen	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Inert Gas Exhausts	
Fluid and Gas	Oxidizer	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Fuel	
Fluid and Gas	Breathing Air	
Fluid and Gas	Gaseous Helium System	
Mechanical	Spin Balance Machine	
Mechanical	Access Platforms	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Structure	Spacecraft leak chamber	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Structure	Special Purpose Flooring	
Water	Potable Water	
Water	Sanitary Sewer	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Generator Building – Facility 34716- Deleted</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	Deleted
Communication	TOPS/Digital Voice	Deleted
Communication	Telephone/LAN wiring	Deleted
Electrical	Low Voltage	Deleted
Electrical	Grounding	Deleted
Environmental	HVAC	Deleted
Environmental	Fire Protection	Deleted
Structure	Special Purpose Doors	Deleted
Structure	Basic Structure	Deleted
Water	Sanitary Sewer	Deleted
Water	Potable Water	Deleted
<b>Interim Hardware Storage Facility – Facility 34715-Deleted</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	Deleted
Communication	Telephone/LAN wiring	Deleted
Communication	Public Address System	Deleted
Electrical	Low Voltage	Deleted
Electrical	Grounding	Deleted
Environmental	HVAC	Deleted
Environmental	Fire Protection	Deleted
Structure	Special Purpose Doors	Deleted
Structure	Basic Structure	Deleted
Water	Sanitary Sewer	Deleted
Water	Potable Water	Deleted
<b>Launch Support Facility – Facility 1777</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Equipment	Facility Control Monitoring Systems	
Equipment	Security Alarm System*	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	

- Not a requirement for Option Period 2 (FY 00), Option Period 3(FY 01), and Option Period 4 (FY 02)

<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Navstar Processing Facility – Facility 55810</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	CCTV	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C`
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Cleanroom	
Environmental	Fire Protection	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Gaseous Nitrogen	
Fluid and Gas	Compressed System Air	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Mechanical	Cranes and Hoists	
Mechanical	Access Platforms	
Mechanical	Crane Support Equipment	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Structure	Special Purpose Flooring	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Navstar Satellite Storage Facility – Facility 55815</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Fire Protection	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Compressed System Air	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Navstar Satellite Storage Facility – Facility 55815 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Fluid and Gas	Misc. Support Equipment	
Mechanical	Cranes and Hoists	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Mechanical	Crane Support Equipment	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Propellant Conditioning Facility – Facility 55885</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Fire Protection	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Fuel	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Structure	Special Purpose Flooring	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Sanitary Sewer	
Water	Potable Water	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Propellant Servicing Facility – Facility 55840</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Cleanroom	
Environmental	Fire Protection	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Fuel	
Fluid and Gas	Gaseous Nitrogen	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Gaseous Helium System	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	
Structure	Special Purpose Flooring	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	
<b>Satellite Assembly Bldg – Facility 49904</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	Cleanroom	
Environmental	HVAC	



<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Satellite Assembly Bldg – Facility 49904 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Gaseous Helium System	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Inert Gas Exhausts	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Gaseous Nitrogen	
Mechanical	Misc. Support Equipment	Personnel lifts, Condor, electrical forklifts, portable platforms, rails, fittings, scaffolding, upright airlifts, utility air-bearing pallets, transporter air pallets, and controllers, etc.
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Flooring	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	
<b>Satellite Assembly Bldg Annex – Facility 1613</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Narrow band Transmission	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	CCTV	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Equipment	Facility Control Monitoring Systems	
Structure	Special Purpose Flooring	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (continued)</b>		
<b>Space Launch Support Facility— Facility 73700, 73704</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	
Communication	Public Address System	
Communication	Telephone/LAN wiring	
Communication	Wide band Transmission	
Communication	Narrow band Transmission	
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	Fire Protection	
Environmental	HVAC	
Structure	Special Purpose Flooring	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Spacecraft Processing &amp; Integration Facility – Facility 70000, 70514</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	RF Transmission	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Antennas	See Appendix C
Communication	CCTV	
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Oxygen Hazard Monitoring	
Environmental	Propellant Vapor Detection	
Environmental	Cleanroom	
Environmental	Fire Protection	
Equipment	Security Alarm System	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Inert Gas Exhausts	
Fluid and Gas	Misc. Support Equipment	
Fluid and Gas	Breathing Air	
Fluid and Gas	Gaseous Nitrogen	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (concluded)</b>		
<b>Technical Support Facility— Facility 34705 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Environmental	Fire Protection	
Structure	Special Purpose Flooring	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>X-Ray – Facility 70659</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Equipment	X-Ray	Operation and maintenance of all X-Ray, film processing, silver recovery equipment
Equipment	Cold Soak	Operation and maintenance of Cold-Soak equipment
Fluid and Gas	Compressed System Air	
Mechanical	Cranes and Hoists	Installed bridge cranes, hoists, and associated cabling and controls
Mechanical	Crane Support Equipment	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Flooring	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	

<b>Figure A-2-1 Spacecraft Critical Facilities Database (concluded)</b>		
<b>Communications Support Facility (Bldg 60705)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	CCTV	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Wide Band Transmission	See Appendix C
Communication	Narrow Band Transmission	See Appendix C
Communication	Timing Distribution	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	
Safety	Hazard Notification	Aural Warning
Structure	Basic Structure	
Structure	Special Purpose Doors	Full Building Height Double Hinged Doors
Water	Potable Water	
Water	Sanitary Sewer	

<b>Communications Support Facility Annex (Bldg 60709)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Mechanical	Misc. Support Equipment	Electrical forklift
Safety	Hazard Notification	Aural Warning
Structure	Basic Structure	
Structure	Special Purpose Doors	Full Building Height Roll Up Doors
Water	Potable Water	
Water	Sanitary Sewer	

## Appendix A-3 – Delta Service Systems

### 1.0 Purpose and Scope

This appendix identifies the critical facilities, and some of the systems and equipment in those facilities, supporting Delta launch vehicle service systems at CCAS.

### 2.0 Responsibilities

Delta Launch Service Systems are composed of, but not limited to, the following components in Figure A-3-1, Critical Facilities Database, shown on pages A-14 through A-20. It identifies the systems and equipment in each of the critical Delta facilities which the LO&SC shall operate and maintain. (text continued on page A-21)

### 3.0 Facilities

Delta service facilities listed below require Facility Management. Facilities include, but are not limited to:

- 3.1 Delta Operation Building (OB) area
- 3.2 Space Launch Complex 17
- 3.3 Hangar M area
- 3.4 Hangar AO area
- 3.5 Flight Hardware Storage Facility, Facility 49934
- 3.6 Area 55
- 3.7 Area 57
- 3.8 Solid Motor Storage Facility, Facility 35420
- 3.9 Pump Station #1 area
- 3.10 Booster Processing Facility area (formerly Delta Spin Test Facility)
- 3.11 Complex 18

Figure A-3-1 Delta Critical Facilities Database		
2nd Stage Checkout Facility – Facility 56636		
System	Sub-system	Notes
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	4 ton
Environmental	Fire Protection	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Sanitary Sewer	
Water	Potable Water	

<b>Figure A-3-1 Delta Critical Facilities Database (continued)</b>		
<b>Booster Processing Facility – Facility 67900</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	30 ton - 20 ton
Fluid and Gas	Compressed System Air	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>CX-17 A &amp; B – Facility 1270</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Antennas	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Low Voltage	Interface: Load side of substations 2,3, ICC, CCC, and TC.
Electrical	Grounding	
Environmental	Fire Protection	Interfaces are Fire Water Pits 1, 2, 3, and 7.
Environmental	Cleanroom	
Environmental	HVAC	All systems except system in Launcher Building that supports fairing air and boat tail. 3 – 120 ton units
Environmental	Oxygen Hazard Monitoring	
Equipment	Facility Control Monitoring Systems	
Equipment	Online Lightning Monitoring System	
Fluid and Gas	Liquid Nitrogen System	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Liquid Oxygen System	Joint ML VII/LO&SC responsibility
Fluid and Gas	Gaseous Nitrogen	
Fluid and Gas	Breathing Air	
Fluid and Gas	Liquid Helium	
Mechanical	Cranes and Hoists	
Mechanical	Elevators	
Mechanical	Access Platforms	

<b>Figure A-3-1 Delta Critical Facilities Database (continued)</b>		
<b>CX-17 A &amp; B – Facility 1270 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Mechanical	Crane Support Equipment	
Mechanical	MST Traction Drive	
Safety	Eye washes / Decontaminate showers	
Safety	Hazard Notification	
Safety	Fall Protection	
Structure	Special Purpose Flooring	White Room Floors, Blockhouse floors
Structure	Special Purpose Doors	White Rooms - east, south, and roof doors, Blockhouse blast door
Structure	Camera Towers	
Structure	Basic Structure	
Water	Deluge/Overpressure suppression	
Water	Potable Water	
Water	Sanitary Sewer	
Water	Containment	
<b>Delta Operations Bldg – Facility 85125</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Low Voltage	Interface: Load side of transformers DLOC1 and DLOI2
Electrical	Grounding	
Environmental	Fire Protection	
Environmental	HVAC	2 - 175 ton units
Equipment	Facility Control Monitoring Systems	
Mechanical	Elevators	
Structure	Basic Structure	
Structure	Special Purpose Doors	Roof Mechanical Room Access Door
Structure	Special Purpose Flooring	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Delta Storage Facility – Facility 60510</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C

<b>Figure A-3-1 Delta Critical Facilities Database (continued)</b>		
<b>Delta Storage Facility – Facility 60510 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Electrical	Grounding	
Electrical	Low Voltage	Interface: Load side of transformer DIMCO.
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Safety	Eye washes/Decontaminate showers	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Flight Hardware Storage Facility – Facility 49934</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Structure	Special Purpose Doors	
Structure	Basic Structure	
<b>Hangar AO – Facility 60530</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	TOPS/Digital Voice	
Electrical	Low Voltage	Interface: Load side of transformers HAOI3 and HAOI2.
Electrical	Grounding	
Environmental	HVAC	375 ton
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Mechanical	Elevators	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Safety	Fall Protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	



Figure A-3-1 Delta Critical Facilities Database (continued)		
Hangar M – Facility 1731		
System	Sub-system	Notes
Communication	Telephone/LAN wiring	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	Interface: Load side of transformers HMI3 and HMI2.
Environmental	Fire Protection	
Environmental	HVAC	Battery Lab: 10 ton & 2-1 ton; Battery Lab & Coolers, and 2 <sup>nd</sup> Stage & Fairing Storage: 7.5 ton & 10 ton
Environmental	Cleanroom	As needed basis per customer requirement
Fluid and Gas	Compressed System Air	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Fall Protection	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	
High Pressure Test Facility – Facility 56618		
System	Sub-system	Notes
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	4 ton
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Sanitary Sewer	
Water	Potable Water	
Lab Building – Facility 56632		
System	Sub-system	Notes
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	3 systems - 3 ton, 3 ton, 4 ton

<b>Figure A-3-1 Delta Critical Facilities Database (continued)</b>		
<b>Lab Building – Facility 56632 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Environmental	Cleanroom	Cleaning lab and hydraulics room
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Pump Station #1 – Facility 40906</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Fuel	Diesel
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	Includes all storage tanks
Water	Potable Water	
Water	Pump Station Equipment	
Water	Sanitary Sewer	
<b>Shipping &amp; Receiving Bldg – Facility 56620</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	All electrical power for area 55 feeds through this facility. Interface point for high to low power is load side of transformer A55T1
Environmental	Fire Protection	
Environmental	HVAC	For storage of flight hardware - 1 ton unit
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Solid Motor Assembly Bldg – Facility 50803</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	Interface: Load side of transformer A57I2
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	
Mechanical	Crane Support Equipment	

<b>Figure A-3-1 Delta Critical Facilities Database (concluded)</b>		
<b>Solid Motor Assembly Bldg – Facility 50803</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Mechanical	Cranes and Hoists	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Solid Motor Storage Bldg – Facility 50801</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Solid Motor Storage Facility – Facility 35420</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	See Appendix C
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Fire Protection	
Structure	Special Purpose Flooring	Special epoxy flooring for air pallet.
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Storage Facility – Facility 56629</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	Interface is load side of 480 volt transformer
Environmental	HVAC	2 ton
Environmental	Fire Protection	
Structure	Special Purpose Doors	
Structure	Basic Structure	

<b>Figure A-4-1 Atlas Critical Facilities Database</b>		
<b>Blockhouse – Facility 5501 *</b>		
	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Antennas	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Public Address System	See Appendix C
Environmental	Fire Protection	
Environmental	HVAC	8 ton and 30 ton unit
Equipment	Facility Control Monitoring Systems	
Mechanical	Elevators	Material Lift
Mechanical	Misc. Support Equipment	Bunker Periscopes
Safety	Eye washes /Decontaminate showers	
Safety	Hazard Notification	Evacuation Horn
Structure	Special Purpose Doors	*Blast door is not a requirement for Option 4 (FY 02)
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>CX-36A – Facility 5500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	Deleted **
Communication	Wide band Transmission **	Deleted **
Communication	Narrow band Transmission **	Deleted **
Communication	TOPS/Digital Voice **	Deleted **
Communication	Public Address System	See Appendix C
Environmental	Propellant Vapor Detection **	Deleted **
Environmental	HVAC **	All HVAC except ECS; include ramp pressure blower, instrumentation cubicle, explosion proof units
Environmental	Fire Protection **	Deleted **
Environmental	Oxygen Hazard Monitoring **	Units on service tower Deleted **
Equipment	Online Lightning Monitoring ** System	*Not a requirement for Option Period's 1 (FY99), 2 (FY 00), 3 (FY 01), 4 (FY 02) 5 (FY03), 6 (FY04)
Equipment	Facility Control Monitoring Systems	Deleted **
Mechanical	Elevators	2 elevators
Safety	Eye washes/Decontaminate Showers	Deleted **
Structure	Basic Structure	Identified critical structures: MST – FACILITY 5553, UT – FACILITY 5500, LSB – FACILITY 5510 Deleted **

\*\* Not a requirement for Option Period 5 (FY 03) and Option Period 6 (FY04)

<b>Figure A-4-1 Atlas Critical Facilities Database (concluded)</b>		
<b>CX-36A – Facility 5500 (concluded)</b>		
	<b>Sub-system</b>	<b>Notes</b>
Structure	Camera Towers	** Deleted
Water	Potable Water	** Deleted
Water	Sanitary Sewer	** Deleted
<b>Hangar J – Facility 1721</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Special Purpose Doors	Hangar Doors
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Pump Station #4 – Facility 1660</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Fuel	Diesel
Fluid and Gas	Compressed System Air	
Safety	Eye washes /Decontaminate showers	
Structure	Basic Structure	Includes all storage tanks
Water	Potable Water	
Water	Pump Station Equipment	
Water	Sanitary Sewer	

\*\* Not a requirement for Option Period 5 (FY 03) and Option Period 6 (FY04)

## **Appendix A-5 – Titan Service Systems**

### **1.0 Purpose and Scope**

This appendix identifies the critical facilities, and some of the systems and equipment in those facilities, supporting Titan launch vehicle service systems at CCAS.

<b>Figure A-5-1 Titan Critical Facilities Database</b>		
<b>CX-40 – Facility 47100</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	CCTV	See Appendix C
Communication	Wide band Transmission	See Appendix C
Electrical	Grounding	Including Lightning Mitigation System, facility # 47141
Electrical	Low Voltage	Upstream interface is 480V step down transformer input, including Dranetz. Includes power cables running to camera towers.
Environmental	Cleanroom	Universal Environmental Shelter, Payload fairing airlock, equipment airlocks, change rooms. CX-40 cleanroom transfers to LO&SC responsibility on 1 October 1998.
Environmental	HVAC	To include 3 fan houses
Environmental	Fire Protection	Located in the Security Entry Control Facility: # 47127
Environmental	Oxygen Hazard Monitoring	
Environmental	Propellant Vapor Detection	
Equipment	Online Lightning Monitoring System	
Equipment	Security Alarm System	
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Gaseous Helium System	
Fluid and Gas	Breathing Air	Downstream from tube bank
Fluid and Gas	Compressed System Air	
Fluid and Gas	Liquid Helium	
Fluid and Gas	Liquid Nitrogen System	
Fluid and Gas	Gaseous Nitrogen	Downstream of Grayloc Flange on NASA feed line
Mechanical	Misc. Support Equipment	lifts, etc.
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Mechanical	MST Traction Drive	
Mechanical	Elevators	3 elevators: 2 passenger and 1 freight
Mechanical	Access Platforms	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	On/Off water interface valve
Safety	Fall Protection	
Structure	Special Purpose Doors	
Structure	Basic Structure	
Structure	Camera Towers	

<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>CX-40 – Facility 47100 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Water	Deluge/Overpressure suppression	All water systems including and downstream of 36" butterfly valves in valve pit
Water	Potable Water	All water systems including and downstream of 36" butterfly valves in valve pit
Water	Sanitary Sewer	
Water	Containment	
<b>CX-41 – Facility 29100</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	CCTV	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Wide band Transmission	See Appendix C
Electrical	Low Voltage	Includes power cables running to camera towers.
Electrical	Grounding	Including Lightning Mitigation System, facility # 29110
Environmental	HVAC	To include North & South fan houses: Bldg. #'s 29135, 29136
Environmental	Propellant Vapor Detection	
Environmental	Oxygen Hazard Monitoring	
Environmental	Fire Protection	Located in the Security Entry Control Bldg.: facility # 29126; Interface point: MXL FireTronics Panel
Environmental	Cleanroom	UES, equipment airlocks, change rooms. CX-41 cleanroom transfers to LO&SC responsibility on 1 October 1998
Equipment	Security Alarm System	
Fluid and Gas	Gaseous Nitrogen	Downstream of Grayloc Flange on NASA feed line
Fluid and Gas	Gaseous Helium System	
Fluid and Gas	Liquid Helium	Liquid He dewar and fill panel: facility # 29103
Fluid and Gas	Breathing Air	Interface at tube bank
Fluid and Gas	Liquid Nitrogen System	
Fluid and Gas	Compressed System Air	
Mechanical	Misc. Support Equipment	Lifts, etc.
Mechanical	Access Platforms	
Mechanical	Elevators	3 elevators: 2 personnel and 1 freight
Mechanical	MST Traction Drive	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Hazard Notification	
Safety	Eye washes/ Decontaminate showers	
Safety	Fall Protection	
Structure	Camera Towers	
Structure	Special Purpose Doors	UES doors, blast doors, etc
Structure	Basic Structure	

<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>CX-41 – Facility 29100 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Water	Deluge/Overpressure suppression	All water systems including and downstream of 36" butterfly valves in valve pit
Water	Potable Water	All water systems including and downstream of 36" butterfly valves in valve pit
Water	Containment	
Water	Sanitary Sewer	
<b>Hangar AM – Facility 60550</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	CCTV	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	Cleanroom	Class 400,000
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Fall Protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	Vertical lift door, airlock door, roll-up doors
Water	Potable Water	
Water	Sanitary Sewer	
<b>Hangar E – Facility 1612 (Deleted)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	** Deleted
Communication	Wide band Transmission	** Deleted
Communication	Narrow band Transmission	** Deleted
Communication	Telephone/LAN wiring	** Deleted
Electrical	Grounding	** Deleted
Electrical	Low Voltage	** Deleted
Environmental	Cleanroom	** Deleted
Environmental	Fire Protection	** Deleted
Environmental	HVAC	Hangar HVAC & Trane HVAC for Battery Lab ** Deleted
Mechanical	Cranes and Hoists	** Deleted
Mechanical	CraneSupport Equipment	** Deleted
Safety	Fall Protection	** Deleted

\*\*Note: Not a Requirement for Option Period 5 (FY03) and Option Period 6 (FY04).



<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>Hangar E – Facility 1612 (concluded) (Deleted)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Safety	Eye washes/Decontaminate showers	** Deleted
Structure	Basic Structure	** Deleted
Structure	Special Purpose Doors	Hangar door ** Deleted
Water	Potable Water	** Deleted
Water	Sanitary Sewer	** Deleted
<b>Launch Operations Control Center – Facility 27200</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	CCTV	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	Fire Protection	
Environmental	HVAC	
Equipment	Facility Control Monitoring Systems	
Mechanical	Elevators	
Safety	Eye washes /Decontaminate showers	
Structure	Basic Structure	
Structure	Special Purpose Flooring	
Structure	Special Purpose Doors	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Payload Fairing Cleaning Building – Facility 70503</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Cleanroom	
Environmental	Fire Protection	
Fluid and Gas	Gaseous CO2 System	Supply and maintain CO2 storage and dry ice generation equipment supplying robotic PLF cleaning
Fluid and Gas	Compressed System Air	

\*\*Note: Not a Requirement for Option Period 5 (FY03) and Option Period 6 (FY04).

<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>Payload Fairing Cleaning Building – Facility 70503 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Mechanical	Misc. Support Equipment	Equipment used in cleanrooms except robot
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Safety	Eye washes /Decontaminate showers	
Safety	Fall Protection	
Structure	Special Purpose Flooring	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	
<b>Pump Station #7 – Facility 29150</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Narrow band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	HVAC	
Environmental	Fire Protection	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Fuel	Diesel
Safety	Eye washes /Decontaminate showers	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	
Water	Pump Station Equipment	
<b>Railroad/Car System – Facility 20350*</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Equipment	Railroad (operation not exclusive to LO&SC)	tracks, subsurface below tracks, ties, splices, switches
Equipment	Railroad	Locomotives. Provide organizational level maintenance only.**
Equipment	Railroad	Ox ullage railcars – corrosion control only
Equipment	Railroad	Fuel ullage railcars – corrosion control only
<b>Solid Motor Assembly And Readiness Facility – Facility 69800</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Wide band Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C

\* Railroad/car System – facility 20350 transfers to LO&SC responsibility on 1 October 1998

\*\*Not a requirement for Option Period 2 (FY00), Option Period 3 (FY 01), and Option Period 4 (FY 02)

<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>Solid Motor Assembly And Readiness Facility – Facility 69800 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	Compressed System Air from, and including, the compressor intake to, and including, the facility installed connectors.
Fluid and Gas	Gaseous Nitrogen	Delivered tube bank
Mechanical	Access Platforms	
Mechanical	Cranes and Hoists	
Mechanical	Elevators	
Mechanical	Crane Support Equipment	
Safety	Fall Protection	
Safety	Hazard Notification	
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	
Structure	Special Purpose Flooring	Floor under UIS air pallet, but not air pallet itself
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	
<b>Solid Motor Assembly Building – East Bay – Facility 70000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	CCTV	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Wide band Transmission	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	HVAC	
Environmental	Propellant Vapor Detection	
Environmental	Cleanroom	
Environmental	Fire Protection	Includes water deluge
Fluid and Gas	Gaseous Nitrogen	
Fluid and Gas	Breathing Air	
Fluid and Gas	Compressed System Air	
Mechanical	Access Platforms	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Hazard Notification	
Safety	Fall Protection	
Safety	Eye washes/Decontaminate showers	

<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>Solid Motor Assembly Building – East Bay – Facility 70000 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Structure	Special Purpose Doors	
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	
<b>Solid Motor Assembly Building – High Bay – Facility 70000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Wide band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Public Address System	See Appendix C
Electrical	Grounding	
Electrical	Low Voltage	
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Gaseous Nitrogen	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Mechanical	Access Platforms	
Mechanical	Elevators	
Safety	Hazard Notification	
Safety	Fall Protection	
Safety	Eye washes/Decontaminate showers	
Structure	Basic Structure	
Structure	Special Purpose Doors	Vertical lift doors
Water	Sanitary Sewer	
Water	Potable Water	
<b>Vertical Integration Building – Facility 70500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	TOPS/Digital Voice	See Appendix C
Communication	Wide band Transmission	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Narrow band Transmission	See Appendix C
Communication	Telephone/LAN wiring	See Appendix C
Communication	Public Address System	See Appendix C
Communication	CCTV	See Appendix C
Communication	Antennas	See Appendix C
Electrical	Low Voltage	
Electrical	Grounding	
Environmental	Cleanroom	
Environmental	Fire Protection	
Environmental	HVAC	

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<b>Figure A-5-1 Titan Critical Facilities Database (continued)</b>		
<b>Vertical Integration Building – Facility 70500 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Equipment	Facility Control Monitoring Systems	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Gaseous Nitrogen	GN2 (for low pressure purging/tests for TOPS)
Fluid and Gas	Gaseous Helium System	
Mechanical	Elevators	
Mechanical	Cranes and Hoists	
Mechanical	Access Platforms	
Mechanical	Crane Support Equipment	
Safety	Fall Protection	
Safety	Eye washes/Decontaminate showers	
Safety	Hazard Notification	
Structure	Special Purpose Doors	Cleanroom doors, roll-up doors
Structure	Basic Structure	
Water	Sanitary Sewer	
Water	Potable Water	

<b>Figure A-5-1 Titan Critical Facilities Database (concluded) *</b>		
<b>LOCC Generator Building – Facility 27212 (concluded)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Electrical	Low Voltage	*
Electrical	Generator	*
Electrical	Lightning Protection	*
Environmental	Fire Protection	*
Environmental	Exhaust Vent Fan	*
Fluid & Gas	Fuel Storage Tank	*
Safety	Eye Washes/Decontaminate Showers	*
Structure	Basic Structure	*
Water	Potable Water	*

**\* NOTE: Requirement for Option Period 5 (FY03) and Option Period 6 (FY04) Only**

**Appendix A-6 – Vandenberg AFB Service Systems (Reserved)**

**Appendix A-7 – EELV Service Systems (Reserved)**

**Appendix A-8 – Navy Service Systems (Reserved)**

**Appendix A-9 – NASA Service Systems (Reserved)**

**Appendix A-10 – Commercial Service Systems (Reserved)**

**Appendix A-11 – Other Service Systems (Reserved)**

## Appendix A-12 – Ordnance Service Systems

### 1.0 Purpose and Scope

This appendix identifies the critical facilities and some of the systems and equipment in those facilities, supporting ordnance services at CCAS.

### 2.0 Responsibilities

The LO&SC shall operate, maintain, and control the facilities and systems identified in Figure A-12-1. This responsibility includes the requirement to perform facility management of these facilities. O&M responsibilities required through 30 Sep 04.

**Figure A-12-1 Ordnance Critical Facilities Database**

<b>Minuteman 1- Facility 72650</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	includes in-ground diesel fuel tank
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Minuteman 2- Facility 72665</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	includes above ground diesel tank
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Minuteman 3- Facility 72680</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Mag A - Facility 72700</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag B - Facility 72701</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag C - Facility 72702</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag D - Facility 72703</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	



**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Mag G - Facility 72706</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
<b>Mag G - Facility 72706 (continued)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag H - Facility 72707</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag I - Facility 72708</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Structure	Basic Structure	
Structure	Special Purpose Doors	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Mag J - Facility 72709</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag L - Facility 77200</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>EMT - Facility 77350</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	CCTV	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Safety	Hazard Notification	
Structure	Basic Structure	
Water	Special Purpose Flooring	
Water	Potable Water	
Water	Sanitary Sewer	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Ramp - Facility 72810</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	TOPS/Digital Voice	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Fall protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
<b>Office/Admin - Facility 72905</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	RF Transmission	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Structure	Basic Structure	
Water	Potable Water	
Water	Sanitary Sewer	
<b>MRTB 1 - Facility 80505</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Environmental	HVAC	Includes inground diesel fuel tank
Equipment	Cold Soak	
Fluid and Gas	Compressed System Air	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Deluge/Overpressure Supp.	
Water	Potable Water	
Water	Sanitary Sewer	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Hangar O - Facility 1366</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Mechanical	Crane Support Egmt	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mark VI - Facility 67210</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Environmental	HVAC	
Mechanical	Crane Support Egmt	
Mechanical	Cranes and Hoists	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
Water	Sanitary Sewer	
<b>Mag 3 - Facility 1240</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag 4 - Facility 1241</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Mechanical	Crane Support Egmt	
Mechanical	Cranes and Hoists	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Mag 4 - Facility 1241</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Potable Water	
<b>Mag 1 - Facility 1242</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag 2 - Facility 1243</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag 7 - Facility 1244</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag 11 - Facility 1245</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Crane Support Eqmt	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Mag 8 - Facility 1246</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>Mag 10 - Facility 1247</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	HVAC	
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Equipment	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>MSF - Facility 61820</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>GPS - Facility 61830</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Environmental	HVAC	
Structure	Basic Structure	
Structure	Special Purpose Doors	

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>Copperhead - Fac. 61875</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>STSPM - Facility 61900</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Structure	Basic Structure	
Structure	Special Purpose Doors	
<b>MRTB 2 - Facility 67500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	
Mechanical	Cranes and Hoists	
Mechanical	Crane Support Eqmt	
Safety	Fall Protection	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Special Purpose Floors	
Water	Deluge/Overpressure Supp.	
<b>MRTB 3 - Facility 67400</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Communication	CCTV	See Appendix C
Communication	Public Address System	See Appendix C
Communication	Telephone/LAN Wiring	See Appendix C
Communication	Grounding	See Appendix C
Communication	Low Voltage	See Appendix C

**Figure A-12-1 Ordnance Critical Facilities Database (continued)**

<b>MRTB 3 - Facility 67400</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Environmental	Fire Protection	
Environmental	HVAC	
Fluid and Gas	Compressed System Air	
Fluid and Gas	Miscellaneous Support Equip.	
Mechanical	Access Platforms	
Mechanical	Crane Support Equipment	
Mechanical	Cranes and Hoists	
Safety	Eye Washes/Decon. Shower	
Safety	Fall Protection	
Safety	Hazard Notification	
Structure	Basic Structure	
Structure	Special Purpose Doors	
Water	Special Purpose Floors	
Water	Deluge/Overpressure Supp.	
Water	Potable Water	
Water	Pump Station Equipment	
Water	Sanitary Sewer	



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## Appendix B – Mission Control Operations

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### 1.0 Purpose and Scope

This Appendix defines Network Validation and Network Operations.

### 2.0 Responsibilities

**2.1 Facilities** – As identified by the Program Management Office.

**2.2 Network Validation** – Network Validation functions consist, as a minimum, of:

2.2.1 Conducting discrete voice and data instrument/equipment testing and validations.

2.2.2 Conducting discrete voice and data circuit validations.

2.2.3 Reporting and tracking to resolution any circuit problems with the range contractor.

2.2.4 Reporting and conducting, where required, any equipment repair actions for voice and data equipment.

**2.3 Network Operations** – Network Operations tasks consist, as a minimum, of:

2.3.1 Conducting summary pre-operation data and voice circuit checks.

2.3.2 Providing real-time on-console trouble reporting service to the launch community and coordinating resolution with the range support contractor.

2.3.3 Operating a teletype/fax message center for mission support information.

2.3.4 When requested, providing real-time customer interface between the payload community and the Eastern Range for range support issues (balloon data, range instrumentation support status, network support status, mark events, etc.)

Figure B-1 Deleted

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## Appendix C – Communication Systems

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### 1.0 Purpose and Scope

This appendix identifies communications systems and facilities supported by the Launch Communications Group of LO&SC at Cape Canaveral Air Force Station. Communications Systems listed within the Communications Systems and Facilities Database are a baseline of existing systems, additional systems may be supported as approved by the government and contractor

### Appendix C-1 – Communication Systems/Equipment Definitions

#### Communication Systems Database Definitions

- **Analog Systems (*Sub-systems: TOPS, Admin Phones*)** – Internal (Intra-Facility) racks, cabling, conduit, and associated hardware, software, and end-units.
- **Digital Voice Systems (*Sub-systems: Orion, ESI*)** – Internal (Intra-Facility) racks, cabling, conduit, and associated hardware, software and end-items.
- **Narrow Band Systems (*Sub-systems: LAN Wiring, RF Transmission, Narrow Band Transmission, Antennas*)** – Internal (Intra-Facility) cabling and equipment from Filter Panel (downstream of MDF Panel) to all distribution points, including conduit.
- **Public Address System (*Sub-systems: Public Address, Aural Warning*)** – Cabling, conduit, and all associated hardware, software, and end-units.
- **Timing Systems (*Sub-systems: Sequencer, L Band, Distribution, Remote Displays, Camera Control Units, Site Clock*)** - Internal (Intra-Facility) cabling and equipment from Main Distribution Frame (MDF) Panel to all internal distribution points.
- **Wide Band Systems (*Sub-systems: CCTV, Wide Band Transmission*)** – Internal (Intra-Facility) cabling and equipment from Main Distribution Frame (MDF) Panel to all internal distribution points.

### Appendix C-2 – Communication Systems & Facilities Database

#### 1.0 Purpose and Scope

This appendix identifies the communication systems and facilities at CCAFS supported by the Launch Communications Group.

#### 2.0 Responsibilities

As defined in the SOW, paragraph 3.10.

### **3.0 Facilities**

Communication facilities listed below are grouped by weapon system.

#### **3.1. Atlas (Fig. C-2-1)**

Facilities:

- 3.1.1. CX-36 Pavilion
- 3.1.2. CX-36 Security Entry Control Point
- 3.1.3. Water Pump Station No. 4 (Facility 1660)
- 3.1.4. Hangar J (Facility 1721)
- 3.1.5. Hangar K (Facility 1725)
- 3.1.6. CX-11 Maintenance Shop (Facility 5403)
- 3.1.7. CX-36 (Facility 5500)
- 3.1.8. CX-36 Office Module (Facility 5500AV)
- 3.1.9. Launch Control Building (Facility 5501)
- 3.1.10. CX-36 Security Entry Control Building (Facility 5502)
- 3.1.11. Pad Support Shop (Facility 5504)
- 3.1.12. CX-36 Ready Building (Facility 5505)
- 3.1.13. CX-36A Gaseous Nitrogen Storage (Facility 5508)
- 3.1.14. Storage Building (Facility 5509)
- 3.1.15. Launch & Service Facility, CX-36A (Facility 5510)
- 3.1.16. Administration Building (Facility 5512)
- 3.1.17. Gaseous Nitrogen Storage (Facility 5515)
- 3.1.18. Hazardous Waste Accumulation Building (Facility 5524)
- 3.1.19. Paint Storage Building (Facility 5527)
- 3.1.20. CX-36A RP-1 Storage (Facility 5528)
- 3.1.21. LOX Storage Facility (Facility 5529)
- 3.1.22. Environmental Control Shelter (Facility 5531)
- 3.1.23. Paint Storage Building (Facility 5532)
- 3.1.24. Optical Alignment Building (Facility 5544)
- 3.1.25. Atlas Operations Annex (Facility 5550)
- 3.1.26. Mobile Service Structure (Facility 5553)
- 3.1.27. Deluge Pond (Facility 5554)
- 3.1.28. Water Tank (Facility 16300)
- 3.1.29. Water Tank (Facility 16301)
- 3.1.30. Water Tank (Facility 16302)
- 3.1.31. Water Well (Facility 16304)
- 3.1.32. Water Well (Facility 16305)
- 3.1.33. Little J Storage Facility (Facility 55000)
- 3.1.34. Little K Storage Facility (Facility 55001)
- 3.1.35. Storage & Shop Bldg., Hangar J Area (Facility 55010)
- 3.1.36. Barrel Storage, Hangar K Area (Facility 55040)
- 3.1.37. CX-36B (All Facilities)

<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database</b>		
<b>CX-36 Pavilion</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>CX-36 Security Entry Control Point</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Water Pump Station No. 4 – Facility 1660</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Hangar J – Facility 1721</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	Wide Band Transmission	
<b>Hangar K – Facility 1725</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>CX-11 Maintenance Shop – Facility 5403</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database (continued)</b>		
<b>CX-36 – Facility 5500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>CX-36 Office Module – Facility 5500AV</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Launch Control Building – Facility 5501</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	L-Band	
Timing	Remote Displays	
Timing	Sequencer	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>CX-36 Security Entry Control Building – Facility 5502</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database (continued)</b>		
<b>Pad Support Shop – Facility 5504</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>CX-36 Ready Building – Facility 5505</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>CX-36A Gaseous Nitrogen Storage – Facility 5508</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
<b>Storage Building – Facility 5509</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
<b>Launch &amp; Service Facility, CX-36A – Facility 5510</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	Pad safety cameras
Wide Band	Wide Band Transmission	
<b>Administration Building – Facility 5512</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Gaseous Nitrogen Storage – Facility 5515</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	

<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database (continued)</b>		
<b>Hazardous Waste Accumulation Building – Facility 5524</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Paint Storage Building – Facility 5527</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Public Address	Aural Warning	
Public Address	Public Address	
<b>CX-36A RP-1 Storage – Facility 5528</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>LOX Storage Facility – Facility 5529</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Environmental Control Shelter – Facility 5531</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Paint Storage Building – Facility 5532</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
<b>Optical Alignment Building – Facility 5544</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Atlas Operations Annex – Facility 5550</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Mobile Service Structure – Facility 5553</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	



<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database (continued)</b>		
<b>Deluge Pond – Facility 5554</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Tank – Facility 16300</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Tank – Facility 16301</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Tank – Facility 16302</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Well – Facility 16304</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Well – Facility 16305</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Little J Storage Facility – Facility 55000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Little K Storage Facility – Facility 55001</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Storage &amp; Shop Bldg., Hangar J Area – Facility 55010</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Barrel Storage, Hangar K Area – Facility 55040</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	

<b>Figure C-2-1 Atlas Communications Systems &amp; Facilities Database (concluded)</b>		
<b>CX-36B – All Facilities</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Remote Displays	

### **3.2. Delta (Fig. C-2-2)**

#### Facilities:

- 3.2.1. CX-17 A & B (Facility 1270)
- 3.2.2. Hangar M (Facility 1731)
- 3.2.3. Blockhouse CX-17 (Facility 28401)
- 3.2.4. Launch Pad B (Facility 28402)
- 3.2.5. Alignment Building (Facility 28403)
- 3.2.6. Storage Building (Facility 28404)
- 3.2.7. LOX Storage Area (Facility 28405)
- 3.2.8. RP-1 Fuel Storage Area (Facility 28406)
- 3.2.9. Switch Control Building (Facility 28407)
- 3.2.10. Electric Distribution Building (Facility 28408)
- 3.2.11. Change and Rest House (Facility 28409)
- 3.2.12. Nitrogen Storage Facility (Facility 28410)
- 3.2.13. Pneumatic Control Building (Facility 28411)
- 3.2.14. DIGS Building (Facility 28413)
- 3.2.15. DIGS Building (Facility 28415)
- 3.2.16. Gantry, Pad A (Facility 28416)
- 3.2.17. Gantry, Pad B (Facility 28417)
- 3.2.18. Liquid Nitrogen Tank (Facility 28419)
- 3.2.19. Machine Shop (Facility 28420)
- 3.2.20. Chiller Building (Facility 28422)
- 3.2.21. Security Building (Facility 28425)
- 3.2.22. Launch Pad A (Facility 28501)
- 3.2.23. White Room A/C Building (Facility 28502)
- 3.2.24. RP-1 Fuel Storage Area (Facility 28503)
- 3.2.25. Pneumatic Control Building (Facility 28504)
- 3.2.26. LH2 Storage Tank (Facility 28509)
- 3.2.27. Delta SRM Storage Facility (Facility 35420)
- 3.2.28. Shop & Ready Building (Facility 36001)
- 3.2.29. Battery Lab (Facility 36002)
- 3.2.30. Electric Distribution Building (Facility 36003)
- 3.2.31. Locker & Storage Facility (Facility 36004)
- 3.2.32. Delta Operations Building (Facility 36006)
- 3.2.33. Delta Horizontal Processing Facility (Facility 36009)
- 3.2.34. Sewage Lift Station (Facility 36010)
- 3.2.35. Water Pump Station No. 1 (Facility 40906)
- 3.2.36. Diesel Fuel Tank (Facility 40906A)
- 3.2.37. Water Tank (Facility 40909)
- 3.2.38. Water Tank (Facility 40910)
- 3.2.39. Flight Hardware Storage (Facility 49934)
- 3.2.40. Rocket Storage Building, Delta Storage (Facility 50801)
- 3.2.41. Rocket Checkout Building (Facility 50803)
- 3.2.42. High Pressure Leak Test Facility (Facility 56618)

- 3.2.43. Delta Administration and Supply Building (Facility 56620)
- 3.2.44. HAZMAT/POL Storage Building (Facility 56629)
- 3.2.45. Delta Laboratories (Facility 56632)
- 3.2.46. Delta 2<sup>nd</sup> Stage Checkout Building (Facility 56636)
- 3.2.47. Delta Storage Facility (Facility 60510)
- 3.2.48. Spacecraft Building #2 AO (Facility 60530)
- 3.2.49. Boiler Building (60533)
- 3.2.50. Substation (Facility 60531)
- 3.2.51. Storage, Diesel (Facility 60539)
- 3.2.52. Booster Processing Facility (Facility 67900)
- 3.2.53. Delta Machine Shop (Facility 67901)
- 3.2.54. Delta Operations Building (Facility 85125)

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database</b>		
<b>CX-17 A &amp; B – Facility 1270</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Hangar M – Facility 1731</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Blockhouse CX-17 – Facility 28401</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Launch Pad B – Facility 28402</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Alignment Building – Facility 28403</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Storage Building – Facility 28404</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>LOX Storage Area – Facility 28405</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
Public Address	Aural Warning	

Public Address	Public Address	
<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>RP-1 Fuel Storage Area – Facility 28406</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Wide Band	CCTV	
<b>Switch Control Building – Facility 28407</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Timing	Distribution	
<b>Electric Distribution Building – Facility 28408</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Timing	Camera Control Units	
Timing	Distribution	
<b>Change and Rest House – Facility 28409</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Nitrogen Storage Facility – Facility 28410</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Pneumatic Control Building – Facility 28411</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>DIGS Building – Facility 28413</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>DIGS Building – Facility 28415</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Gantry, Pad A – Facility 28416</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Gantry, Pad B – Facility 28417</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Liquid Nitrogen Tank – Facility 28419</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Machine Shop – Facility 28420</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Chiller Building – Facility 28422</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Security Building – Facility 28425</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	Wide Band Transmission	
<b>Launch Pad A – Facility 28501</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
<b>White Room A/C Building – Facility 28502</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>RP-1 Fuel Storage Area – Facility 28503</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Pneumatic Control Enclosure – Facility 28504</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>LH2 Storage Tank – Facility 28509</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	



<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Delta SRM Storage Facility – Facility 35420</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Shop &amp; Ready Building – Facility 36001</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Wide Band	CCTV	
<b>Battery Lab – Facility 36002</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Electric Distribution Building – Facility 36003</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
<b>Locker &amp; Storage Facility – Facility 36004</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Delta Operations Building – Facility 36006</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Remote Displays	
Wide Band	CCTV	
<b>Delta Horizontal Processing Facility – Facility 36009</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	

Public Address	Public Address	
<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Sewage Lift Station – Facility 36010</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Water Pump Station No. 1 – Facility 40906</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Diesel Fuel Tank – Facility 40906A</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Tank – Facility 40909</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Water Tank – Facility 40910</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Flight Hardware Storage – Facility 49934</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Rocket Storage Bldg., Delta Storage – Facility 50801</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Rocket Checkout Bldg. – Facility 50803</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>High Pressure Leak Test Facility – Facility 56618</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Wide Band	CCTV	

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (continued)</b>		
<b>Delta Administration and Supply Building – Facility 56620</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>HAZMAT/POL Storage Building – Facility 56629</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Delta Laboratories – Facility 56632</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Delta 2nd Stage Checkout Building – Facility 56636</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Delta Storage Facility – Facility 60510</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Spacecraft Bldg.#2 AO – Facility 60530</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
<b>Substation – Facility 60531</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Boiler Building – Facility 60533</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		

<b>Figure C-2-2 Delta Communications Systems &amp; Facilities Database (concluded)</b>		
<b>Storage, Diesel – Facility 60539</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this Facility.		
<b>Booster Processing Facility – Facility 67900</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
<b>Delta Machine Shop – Facility 67901</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Delta Operations Bldg – Facility 85125</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	L-Band	
Timing	Remote Displays	
Timing	Sequencer	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

### **3.3. Titan (Fig. C-2-3)**

#### **Facilities:**

- 3.3.1. Security Entry Control (Facility 27206)
- 3.3.2. Launch Operations Control Center (Facility 27220)
- 3.3.3. Water Pump Station No. 7 (Facility 29150)
- 3.3.4. Water Tank (Facility 29151)
- 3.3.5. Septic Tank (Facility 29153)
- 3.3.6. Diesel Fuel Tank (Facility 29155)
- 3.3.7. CX-40 Camera Platform (Facility 41910)
- 3.3.8. Space Lift Training Center (Facility 44440)
- 3.3.9. CX-40 (Facility 47100)
- 3.3.10. Liquid Oxygen Area (Facility 47104)
- 3.3.11. Launch Stand (Facility 47105)
- 3.3.12. Emergency Power Shelter (Facility 47108)
- 3.3.13. CX-40 Ready Building (Facility 47109)
- 3.3.14. Protective Clothing Building (Facility 47110)
- 3.3.15. Complex Support Building (Facility 47111)
- 3.3.16. Fuel Holding Area (Facility 47112)
- 3.3.17. Fuel Holding Pond (Facility 47113)
- 3.3.18. Oxidizer Holding Area (Facility 47114)
- 3.3.19. Air Conditioning Shelter (Facility 47115)
- 3.3.20. Paint Storage Building (Facility 47117)
- 3.3.21. AGE Building CX-40 (Facility 47118)
- 3.3.22. Gaseous Nitrogen Storage Area (Facility 47119)
- 3.3.23. Mobile Service Tower CX-40 (Facility 47121)
- 3.3.24. Liquid Hydrogen Holding Area (Facility 47124)
- 3.3.25. Substation, Street Lighting (Facility 47126)
- 3.3.26. Security Entry Control (Facility 47127)
- 3.3.27. Fan House No. 1 (Facility 47130)
- 3.3.28. Fan House No. 2 (Facility 47131)
- 3.3.29. Refrigeration Building (Facility 47132)
- 3.3.30. Oxidizer Tank (Facility 47136)
- 3.3.31. Lightning Protection Tower (Facility 47141)
- 3.3.32. Spacecraft Building #1, AM (Facility 60550)
- 3.3.33. Railroad Maintenance Building (Facility 69606)
- 3.3.34. Solid Motor Assembly and Readiness Facility (Facility 69800)
- 3.3.35. SMARF Sentry House (Facility 69801)
- 3.3.36. POL Building (Facility 69804)
- 3.3.37. Solid Motor Assembly Building, East Bay (Facility 70000)
- 3.3.38. Solid Motor Assembly Building, High Bay (Facility 70000)
- 3.3.39. Gas Storage Area (Facility 70003)
- 3.3.40. Substation (Facility 70004)
- 3.3.41. Substation (Facility 70006)

- 3.3.42. Substation (Facility 70008)
- 3.3.43. Substation (Facility 70009)
- 3.3.44. SMAB/SPIF Security Building (Facility 70011)
- 3.3.45. Boiler Room (Facility 70012)
- 3.3.46. Generator Building (Facility 70013)
- 3.3.47. Paint Shed (Facility 70017)
- 3.3.48. POL Building (Facility 70018)
- 3.3.49. Gas Storage Area (Facility 70454)
- 3.3.50. VIB Security Entry Control (Facility 70460)
- 3.3.51. Vertical Integration Building (Facility 70500)
- 3.3.52. Diesel Fuel Tank (Facility 70500A)
- 3.3.53. Diesel Fuel Tank (Facility 70500B)
- 3.3.54. Diesel Fuel Tank (Facility 70500D)
- 3.3.55. VIB Solvent Storage Area (Facility 70502)
- 3.3.56. Payload Fairing Cleaning Facility (Facility 70503)
- 3.3.57. Hazardous Storage Area (Facility 70505)
- 3.3.58. Generator Building (Facility 70507)
- 3.3.59. ITL Warehouse (Facility 70510)
- 3.3.60. Hazardous Waste Accumulation (Facility 70516)
- 3.3.61. Generator Building (Facility 70526)
- 3.3.62. Diesel Fuel Tank (Facility 70527)
- 3.3.63. AGE Support Warehouse (Facility 70540)
- 3.3.64. SCAPE Trailer (LSS-1)
- 3.3.65. SCAPE Trailer (LSC-4)
- 3.3.66. SCAPE Trailer (LSS-5)
- 3.3.67. S-1 Security Trailer

Figure C-2-3 Titan Communications Systems & Facilities Database		
Security Entry Control – Facility 27206		
System	Sub-system	Notes
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Launch Operations Control Center – Facility 27220</b>		
<b>System</b>	<b>Sub-system</b>	
Analog	Telephone	
Digital Voice	ESI	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Water Pump Station No. 7 – Facility 29150</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Water Tank – Facility 29151</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Septic Tank – Facility 29153</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Diesel Fuel Tank – Facility 29155</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>CX-40 Camera Platform – Facility 41910</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Wide Band	CCTV	
<b>Space Lift Training Center – Facility 44440</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>CX-40 – Facility 47100</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Liquid Oxygen Area – Facility 47104</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Remote Displays	
<b>Launch Stand – Facility 47105</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Emergency Power Shelter – Facility 47108</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	



<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>CX-40 Ready Building – Facility 47109</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Protective Clothing Building – Facility 47110</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Complex Support Building – Facility 47111</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Fuel Holding Area – Facility 47112</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Fuel Holding Pond – Facility 47113</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Oxidizer Holding Area – Facility 47114</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Air Conditioning Shelter – Facility 47115</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Paint Storage Building – Facility 47117</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>AGE Building CX-40 – Facility 47118</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Camera Control Units	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Gaseous Nitrogen Storage Area – Facility 47119</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Mobile Service Tower CX-40 – Facility 47121</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Liquid Hydrogen Holding Area – Facility 47124</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Substation, Street Lighting – Facility 47126</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Security Entry Control – Facility 47127</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Fan House No. 1 – Facility 47130</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Fan House No. 2 – Facility 47131</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Refrigeration Building – Facility 47132</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Oxidizer Tank – Facility 47136</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Lightning Protection Tower – Facility 47141</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Spacecraft Building #1, AM – Facility 60550</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Railroad Maintenance Building – Facility 69606</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Solid Motor Assembly And Readiness Facility – Facility 69800</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
<b>SMARF Sentry House – Facility 69801</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>POL Building – Facility 69804</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Solid Motor Assembly Building, East Bay – Facility 70000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	L-Band	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Solid Motor Assembly Building, High Bay – Facility 70000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>Gas Storage Area – Facility 70003</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Substation – Facility 70004</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Substation – Facility 70006</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Substation – Facility 70008</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Substation – Facility 70009</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>SMAB/SPIF Security Building – Facility 70011</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Boiler Room – Facility 70012</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
<b>Generator Building – Facility 70013</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Paint Shed – Facility 70017</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>POL Building – Facility 70018</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Gas Storage Area – Facility 70454</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (continued)</b>		
<b>VIB Security Entry Control – Facility 70460</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Vertical Integration Building – Facility 70500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	L-Band	
Timing	Remote Displays	
Timing	Sequencer	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Diesel Fuel Tank – Facility 70500A</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Diesel Fuel Tank – Facility 70500B</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Diesel Fuel Tank – Facility 70500D</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>VIB Solvent Storage Area – Facility 70502</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Payload Fairing Cleaning Facility – Facility 70503</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Hazardous Storage Area – Facility 70505</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Generator Building – Facility 70507</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>

Analog	Telephone	
<b>Figure C-2-3 Titan Communications Systems &amp; Facilities Database (concluded)</b>		
<b>ITL Warehouse – Facility 70510</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Hazardous Waste Accumulation – Facility 70516</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Public Address	Aural Warning	
Public Address	Public Address	
<b>Generator Building – Facility 70526</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Diesel Fuel Tank – Facility 70527</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>AGE Support Warehouse – Facility 70540</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>SCAPE Trailer (LSS-1)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
<b>SCAPE Trailer (LSC-4)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
<b>SCAPE Trailer (LSS-5)</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
<b>S-1 Security Trailer</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	



### 3.4. Spacecraft (Fig. C-2-4)

Facilities:

- 3.4.1. Satellite Processing Facility, C Annex (Facility 1613)
- 3.4.2. Training Facility (Facility 1723)
- 3.4.3. Launch Support Facility (Facility 1777)
- 3.4.4. Hangar AA (Facility 44810)
- 3.4.5. Satellite Processing Facility, C (Facility 49904)
- 3.4.6. Satellite Processing Facility (Facility 55810)
- 3.4.7. Back-Up Generator Pad (Facility 55812)
- 3.4.8. Satellite Storage Facility A (Facility 55815)
- 3.4.9. Satellite Processing Facility (Facility 55820)
- 3.4.10. A/C Building (Facility 55826)
- 3.4.11. Equipment Pad (Facility 55827)
- 3.4.12. Propellant Servicing Facility (Facility 55840)
- 3.4.13. Test Equipment Storage Building (Facility 55850)
- 3.4.14. Sentry House (Facility 55851)
- 3.4.15. Satellite Processing Support Facility (Facility 55871)
- 3.4.16. Propellant Load Facility (Facility 55885)
- 3.4.17. Engineering Support Facility (Facility 55890)
- 3.4.18. Lockheed Martin Modular (Facility 55895)
- 3.4.19. Launch Communications Building (Facility 60705)
- 3.4.20. Launch Communications Warehouse (Facility 60709)
- 3.4.21. Spacecraft Processing & Integration Facility (Facility 70000)
- 3.4.22. Fuel/Oxidizer Area (Facility 70010)
- 3.4.23. ITL X-Ray (Facility 70659)
- 3.4.24. Emergency Generator Building (Facility 70662)
- 3.4.25. Equipment Building (Facility 70663)

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database</b>		
<b>Satellite Processing Facility, C Annex – Facility 1613</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (continued)</b>		
<b>Training Facility – Facility 1723</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	Wide Band Transmission	
<b>Launch Support Facility – Facility 1777</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	Wide Band Transmission	
<b>Hangar AA – Facility 44810</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Satellite Processing Facility C – Facility 49904</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (continued)</b>		
<b>Satellite Processing Facility – Facility 55810</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Back-Up Generator Pad – Facility 55812</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Satellite Storage Facility A – Facility 55815</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Satellite Processing Facility – Facility 55820</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>A/C Building – Facility 55826</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
<b>Equipment Pad – Facility 55827</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (continued)</b>		
<b>Propellant Servicing Facility – Facility 55840</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Test Equipment – Facility 55850</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Public Address	Aural Warning	
Public Address	Public Address	
<b>Sentry House – Facility 55851</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Satellite Processing Support Facility – Facility 55871</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Propellant Load Facility – Facility 55885</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (continued)</b>		
<b>Engineering Support Facility – Facility 55890</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Lockheed Martin Modular – Facility 55895</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Launch Communications Building – Facility 60705</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Digital Voice	Orion	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Sequencer	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (continued)</b>		
<b>Launch Communications Warehouse – Facility 60709</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Spacecraft Processing &amp; Integration Facility – Facility 70000</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Digital Voice	Orion	
Narrow Band	Antenna	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Timing	Distribution	
Timing	Remote Displays	
Timing	Site Clock	
Wide Band	CCTV	
Wide Band	Wide Band Transmission	
<b>Fuel/Oxidizer Area – Facility 70010</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Public Address	Aural Warning	
Public Address	Public Address	
<b>ITL X-Ray – Facility 70659</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	

<b>Figure C-2-4 Spacecraft Communications Systems &amp; Facilities Database (concluded)</b>		
<b>Emergency Generator Building – Facility 70662</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
<b>Equipment Building – Facility 70663</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	

### **3.5. Ordnance (Fig. C-2-5)**

#### **Facilities:**

- 3.5.1. Magazine 3, FSA 3 (Facility 1240)
- 3.5.2. Magazine 4, FSA 3 (Facility 1241)
- 3.5.3. Magazine 1, FSA 3 (Facility 1242)
- 3.5.4. Magazine 2, FSA 3 (Facility 1243)
- 3.5.5. Magazine 7, FSA 3 (Facility 1244)
- 3.5.6. Magazine 11, FSA 3 (Facility 1245)
- 3.5.7. Magazine 8, FSA 3 (Facility 1246)
- 3.5.8. Magazine 10, FSA 3 (Facility 1247)
- 3.5.9. Hangar O (Facility 1366)
- 3.5.10. Ordnance Storage Magazine (Facility 61820)
- 3.5.11. Missile Motor Storage (Facility 61830)
- 3.5.12. Ordnance Storage Facility (Facility 61875)
- 3.5.13. Ordnance Storage Building (Facility 61900)
- 3.5.14. Mark VI Checkout Building (Facility 67210)
- 3.5.15. SRM X-Ray Facility (Facility 67400)
- 3.5.16. Missile Research Test Building (Facility 67500)
- 3.5.17. Missile Storage Magazine, FSA 2 (Facility 72650)
- 3.5.18. Engine Storage Magazine, FSA 2 (Facility 72665)
- 3.5.19. Engine Storage Magazine, FSA 2 (Facility 72680)
- 3.5.20. Pyrotech Storage Igloo, FSA 2 (Facility 72700)
- 3.5.21. Explosive Storage Igloo, FSA 2 (Facility 72701)
- 3.5.22. Booster Storage Igloo, FSA 2 (Facility 72702)
- 3.5.23. Booster Storage Igloo, FSA 2 (Facility 72703)
- 3.5.24. Explosive Storage Igloo, FSA 2 (Facility 72706)
- 3.5.25. Pyrotech Storage Igloo, FSA 2 (Facility 72707)
- 3.5.26. Explosive Storage Igloo, FSA 2 (Facility 72708)
- 3.5.27. Booster Storage Igloo, FSA 2 (Facility 72709)
- 3.5.28. Loading Dock (Facility 72810)
- 3.5.29. Technical Support Building, FSA 2 (Facility 72910)
- 3.5.30. Booster Storage Igloo (Facility 77200)
- 3.5.31. Ordnance Test Building (Facility 77350)
- 3.5.32. Missile Research Test Building (Facility 80505)



<b>Figure C-2-5 Ordnance Communications Systems &amp; Facilities Database</b>		
<b>Magazine 3, FSA 3 – Facility 1240</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 4, FSA 3 – Facility 1241</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 1, FSA 3 – Facility 1242</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 2, FSA 3 – Facility 1243</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 7, FSA 3 – Facility 1244</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 11, FSA 3 – Facility 1245</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 8, FSA 3 – Facility 1246</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Magazine 10, FSA 3 – Facility 1247</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Hangar O – Facility 1366</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Ordnance Storage Magazine – Facility 61820</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Missile Motor Storage – Facility 61830</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Ordnance Storage Facility – Facility 61875</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	

<b>Figure C-2-5 Ordnance Communications Systems &amp; Facilities Database (continued)</b>		
<b>Ordnance Storage Building – Facility 61900</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Mark VI Checkout Building – Facility 67210</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	RF Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>SRM X-Ray Facility – Facility 67400</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Missile Research Test Building – Facility 67500</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Missile Storage Magazine, FSA 2 – Facility 72650</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Engine Storage Magazine, FSA 2 – Facility 72665</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Engine Storage Magazine, FSA 2 – Facility 72680</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Pyrotech Storage Igloo, FSA 2 – Facility 72700</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Explosive Storage Igloo, FSA 2 – Facility 72701</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Booster Storage Igloo, FSA 2 – Facility 72702</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Booster Storage Igloo, FSA 2 – Facility 72703</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	

<b>Figure C-2-5 Ordnance Communications Systems &amp; Facilities Database (concluded)</b>		
<b>Explosive Storage Igloo, FSA 2 – Facility 72706</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Pyrotech Storage Igloo, FSA 2 – Facility 72707</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Explosive Storage Igloo, FSA 2 – Facility 72708</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Booster Storage Igloo, FSA 2 – Facility 72709</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
<b>Loading Dock – Facility 72810</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Analog	TOPS	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Technical Support Building, FSA 2 – Facility 72910</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	LAN Wiring	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
<b>Booster Storage Igloo – Facility 77200</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Currently no Comm installed at this facility.		
<b>Ordnance Test Building – Facility 77350</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	
Wide Band	CCTV	
<b>Missile Research Test Building – Facility 80505</b>		
<b>System</b>	<b>Sub-system</b>	<b>Notes</b>
Analog	Telephone	
Narrow Band	Narrow Band Transmission	
Public Address	Aural Warning	
Public Address	Public Address	

**Figure H-1 Top Level Work Breakdown Structure (WBS)**

<b>0.0 Launch Operations &amp; Support Contract</b>	
<b>1.0 Management</b>	
1.1	Program Management
1.1.1	Contract Administration
1.1.2	Subcontract Management
1.1.3	Property Management
1.1.4	Management Support
1.1.4.1	CWBS
1.1.4.2	Meeting Support
1.1.4.3	Environmental Compliance
1.1.4.4	Performance Metrics
1.1.4.5	Data/ADPL
1.1.4.6	Monthly Status Report
1.2	Safety
1.3	Security
1.4	Planning and Requirements
1.4.1	Preplanning Support
1.4.2	Requirements Development & Planning
1.4.3	Planning & Utilization Schedules
1.5	Financial Management
1.6	Integrated Resource Management
1.6.1	Spaceport Intranet Information System
1.6.1.1	Operations Support Library
1.6.2	Resource Data Exchange Standard
1.6.3	Maintenance Operations Coordination Center (MOCC) Support
<b>2.0 Systems Management</b>	
<i>A = Facility; B = Subsystem; C = Specific Equipment</i>	
2.1.A.B.C	ICDs
2.2.A.B.C	System Baseline
2.3.A.B.C	Failure Mode, Effects, and Criticality Analysis (FMECA)
2.4.A.B.C	Safety Engineering
2.5.A.B.C	Logistics Support Analysis
2.6.A.B.C	Operations and Maintenance Procedures
2.7.A.B.C	Systems Engineering and Configuration Management
2.8.A.B.C	Modifications and Upgrades
2.9.A.B.C	Material Review Board
<b>3.0 Systems Operations and Maintenance</b>	
3.1.A.B.C	Operations and Maintenance Control
3.2.A.B.C	Systems Operations & Maintenance
3.3.A.B.C	Mission Support
3.4.A.B.C	Testing, Pre-launch, and Launch Day Support
3.5.A.B.C	Schedule and Status Reports
3.6.A.B.C	Maintenance Deferrals
3.7.A.B.C	Facility Management
3.8.A.B.C	Disaster Preparedness
3.9.A.B.C	Corrosion Control
3.10.A.B.C	Launch Communications
3.10.1	Communications
3.10.2	Mission Control Operations
3.10.2.1	Mission Scripts
3.10.2.2	Launch Operations Handbook
3.10.2.3	Network Configuration
3.10.2.4	Scheduling
3.10.2.5	Operation of Mission Control Network
<b>4.0 Logistics</b>	
4.1	Service System Parts Inventory
4.2	Supplies
4.3	Packaging/Shipping
<b>5.0 Quality Assurance Program</b>	
5.1	Quality Program
<b>6.0 Operations Support</b>	
6.1	Mission Control Operations
<del>6.1.1</del>	<del>Communications Plan</del>
<del>6.1.2</del>	<del>Mission Scripts</del>
<del>6.1.3</del>	<del>Launch Operations Handbook</del>
<del>6.1.4</del>	<del>Network Configuration</del>
<del>6.1.5</del>	<del>Scheduling</del>
<del>6.1.6</del>	<del>Mission Control Operations</del>

- 6.2 Ordnance Services
- 6.3 Operational Training and Badging
- 6.4 Visitor Record Center
- 6.5 Hazardous Commodity Administration

Figure H-2 SOW to WBS Cross Reference Matrix	
SOW Paragraph	WBS Element
3.0 Requirements	0. Launch Operations & Support Contract
3.1 Management	1.0 Management
3.1.1 Program Management	1.1 Program Management
3.1.1.1 Contract Administration	1.1.1 Contract Administration
3.1.1.2 Subcontract Management	1.1.2 Subcontract Management
3.1.1.3 Property Management	1.1.3 Property Management
3.1.1.4 Management Support Functions	1.1.4 Management Support 1.1.4.1 CWBS 1.1.4.4 Performance Metrics 1.1.4.2 Meeting Support 1.1.4.5 Data/APDL 1.1.4.3 Environmental 1.1.4.6 Monthly Status Report
3.1.2 Safety	1.2 Safety
3.1.3 Security	1.3 Security
3.1.4 Planning and Requirements	1.4 Planning and Requirements
3.1.4.1 Preplanning Support	1.4.1 Preplanning Support
3.1.4.2 Requirements Development & Planning	1.4.2 Requirements Development & Planning
3.1.4.3 Planning & Utilization	1.4.3 Planning & Utilization
3.1.5 Financial Management	1.5 Financial Management
3.1.6 Integrated Resource Management	1.6 Integrated Resource Management 1.6.1 Spaceport Intranet Information System 1.6.1.1 Operations Support Library 1.6.2 Resource Data Exchange Standard 1.6.3 Maintenance Operations Coordination Center Support
3.2 Systems Management	2.0 Systems Management
3.2.1 Interface Control Documents	2.1.A.B.C ICDs
3.2.2 System Baselines	2.1.A.B.C Baselines
3.2.3 FMECA	2.3.A.B.C FMECA
3.2.4 Safety Engineering	2.4.A.B.C Safety Engineering
3.2.5 LSA	2.5.A.B.C LSA
3.2.6 Operations and Maintenance Procedures	2.6.A.B.C Operations and Maintenance Procedures
3.2.7 Systems Engineering and Configuration Management	2.7.A.B.C Systems Engineering and Configuration Management
3.2.8 Modifications and Upgrades	2.8.A.B.C Modifications and Upgrades
3.2.9 Material Review Board	2.9.A.B.C Material Review Board
3.3 Systems Operations and Maintenance	3.0 Systems Operations and Maintenance
3.3.1 Operations and Maintenance Control	3.1.A.B.C Operations and Maintenance Control
3.3.2 Systems Operations & Maintenance	3.2.A.B.C Systems Operations & Maintenance
3.3.3 Mission Support	3.3.A.B.C Mission Support
3.3.4 Testing, Pre-launch, and Launch Day Support	3.4.A.B.C Testing, Pre-launch, and Launch Day Support
3.3.5 Schedule and Status Reports	3.5.A.B.C Schedule and Status Reports
3.3.6 Maintenance Deferrals	3.6.A.B.C Maintenance Deferrals
3.3.7 Facility Management	3.7.A.B.C Facility Management
3.3.8 Disaster Preparedness	3.8.A.B.C Disaster Preparedness
3.3.10 Communications through 3.3.25 Propellant Vapor Detection (subsystems)	2.1.A.B.C System Baseline and ICDs through 3.8.A.B.C Corrosion Control, depending on the work requirement
3.4 Logistics	4.0 Logistics
3.4.1 Service System Parts Inventory	4.1 Service System Parts Inventory
3.4.2 Supplies	4.2 Supplies
3.4.3 Packaging/Shipping	4.3 Packaging/Shipping
3.5 Quality Assurance Program	5.0 Quality Assurance Program and 5.1 Quality Program
3.6 Operations Support	6.0 Operations Support
3.6.1 Mission Control Operations	6.1 Mission Control Operations
3.6.1.1 Communications Plan	6.1.1 Communications Plan
3.6.1.2 Mission Scripts	6.1.2 Mission Scripts
3.6.1.3 Launch Operations Handbook	6.1.3 Launch Operations Handbook
3.6.1.4 Network Configuration	6.1.4 Network Configuration
3.6.1.5 Scheduling	6.1.5 Scheduling
3.6.1.6 Mission Control Operations	6.1.6 Mission Control Operations
3.6.2 Ordnance Services	6.2 Ordnance Services
3.6.3 Operational Training and Badging	6.3 Operational Training and Badging
3.6.4 Visitor Records Section	6.4 Visitor Records Section
3.6.5 Hazardous Commodity Administration	6.5 Hazardous Commodity Administration
3.10 Launch Communications	10 Launch Communications
3.10.1 Communications	10.1 Communications
3.10.2 Mission Control Operations	10.2 Mission Control Operations
3.10.2.1 Mission Scripts	10.2.1 Mission Scripts
3.10.2.2 Launch Operations Handbook	10.2.2 Launch Operations Handbook
3.10.2.3 Network Configuration	10.2.3 Network Configuration
3.10.2.4 Scheduling	10.2.4 Scheduling
3.10.2.5 Operation of Mission Control Network	10.2.5 Operation of Mission Control Network

updated and does not have an ending point, either do not require government notification or only require notification when an event occurs that may require Government involvement.

### **Additional Data Access**

The ADP List provided in Figure K-1 is not a comprehensive list of all data to be provided. Data generated by the contractor in the course of the performance of this contract which may be useful to the Government, its contractors, or range users which is not specifically listed as an ADPL shall also be made available to the Government, other contractors, and appropriate range users through the structures and processes established for the ADPL. The basic tenet of the contract ADPL is that it is a living document, to be maintained in coordination with the lead Office of Primary Responsibility (OPR)/ Integrated Product Team (IPT) and any other customer it serves, throughout the performance period of the contract. Access to LO&SC Program data not currently cataloged as ADPLs (with the exception of data specifically identified as inaccessible data) will be provided through the same structure and processes defined for the ADPL data unless determined to be otherwise impractical or inappropriate by the program manager.

### **ADPL Organization**

All of the ADP's currently listed are identified with a three-digit sequence number (e.g. *ADPL 015, Interface Control Document*), and have an associated ADP Description Form identifying key information relative to that particular data item. Gaps in the sequence indicate where a data product was originally contemplated, but was later deleted as being not required, identified as a duplicate, or was absorbed in an existing ADP. The list acts as an ADPL index as well as a Responsibility Assignment Matrix to identify the lead OPR/IPT that will be primarily responsible for that particular data item.

### **Inaccessible Data**

A list of data/documentation that will not be available on the MAN to the Government as provided in the Contractor Statement of Work (SOW) is listed below.

1. Classified data;
2. Non-program specific data (e.g. payroll, personnel records);
3. Company and subcontractor proprietary data;
4. Data having restricted rights;
5. Cost/performance data on fixed price CLINS;
6. Large or bulky legacy hard copy documents impractical to convert to softcopy

### **Classified Data**

The MAN is limited to communicating and processing unclassified data. Any classified data shall be stored and processed on a separate, secure classified system and shall be delivered via established encrypted electronic systems and/or in hard copy form.

Figure K-1 Accessible Data Product List (concluded)			
Attachment to CDRL 001			
Seq. No	ADP Subject	OPR/IPT	SOW
055	Visitor Records Center Database	PM	3.6.4-1
056			
057	Commodity Status Report	Mission	3.6.5-1
058	Spaceport Intranet Information System User Guide	PM	3.1.6-2.5
059	Spaceport Intranet Information System Index	PM	3.1.6-2.5
060	Resource Data Exchange Standard Specification	PM	3.1.6-2.7
061			
062	<del>Communications Plan</del> - Deleted	Mission	3.6.1.1-1
063	Mission Script	Mission	3.10.2.1
064	Launch Operations Handbook	Mission	3.10.2.2
065	Console Level Voice Matrix	Mission	3.10.2.3-2.1
066	Seating Plan	Mission	3.10.2.3-2.6
067	LO&SC (CCG) Safety Requirements Document	Mission	3.1.2-2.1, 3.2.4



## DELETED

LO&SC ACCESSIBLE DATA PRODUCT DESCRIPTION					
<b>ADP No:</b>	062	<b>OPR/IPT:</b>	Mission	<b>Revision Date</b>	
<b>Product Name</b> Communications Plan					
<b>Source:</b>			<b>Basic Program Resp:</b>		
<b>Contract No:</b>			<b>SOW No:</b> 3.6.1.1.1		
<b>WBS No:</b>	6.1.1	<b>WBS Subtask No:</b>		6.1.1	<b>CLIN:</b> 0004
<b>Customer Accessibility Criteria:</b>			Access draft 30 days prior to scheduled use. Final Plan access 15 days prior to scheduled use.		
<b>Scope:</b>					
<b>Content:</b>	<p>Reference: DI MGMT 80057/T, The Communication Plan shall contain:</p> <ol style="list-style-type: none"> <li>1. <del>Aeronyms and Abbreviations.</del></li> <li>2. <del>Related Documentation</del></li> <li>3. <del>Net Descriptions.</del></li> <li>4. <del>Facility Level Matrices:</del> <ul style="list-style-type: none"> <li><del>Nonsecure Voice Net Assignments.</del></li> <li><del>Nonsecure Voice Circuit Numbers.</del></li> <li><del>Secure Voice Net Assignments.</del></li> <li><del>Secure Voice Circuit Numbers.</del></li> <li><del>Voice Direct Lines (VDLs).</del></li> <li><del>Teletype.</del></li> <li><del>Television Cameras.</del></li> </ul> </li> <li>5. <del>In addition, the following organizations may require draft/final hard copies: LMA/M240, L-3 Communications Corp., OD-4/DL</del></li> </ol>				
<b>Format:</b>					
<b>Guidance Documents:</b>					
<b>Remarks</b>	Data for the communication plan must be obtained from other ER contractors.				

<b>LO&amp;SC ACCESSIBLE DATA PRODUCT DESCRIPTION</b>					
<b>ADP No:</b>	063	<b>OPR/IPT:</b>	Mission	<b>Revision Date</b>	
<b>Product Name</b>		Mission Script			
<b>Source:</b>			<b>Basic Program Resp:</b>		
<b>Contract No:</b>			<b>SOW No:</b> 3.10.2.1		
<b>WBS No: 10.2.1</b>		<b>WBS Subtask No: 10.2.1</b>		<b>CLIN:</b> 0001	
<b>Customer Accessibility Criteria:</b>			As required. Hard copies may be provided to agencies not having access to the 45SW Intranet.		
<b>Scope:</b>					
<b>Content:</b>		As agreed to by the customer			
<b>Format:</b>					
<b>Guidance Documents:</b>					
<b>Remarks</b>					

<b>LO&amp;SC ACCESSIBLE DATA PRODUCT DESCRIPTION</b>				
<b>ADP No:</b>	064	<b>OPR/IPT:</b>	Mission	<b>Revision Date</b>
<b>Product Name</b>	Launch Operations Handbook			
<b>Source:</b>		<b>Basic Program Resp:</b>		
<b>Contract No:</b>		<b>SOW No:</b>	3.10.2.2	
<b>WBS No:</b> 10.2.2	<b>WBS Subtask No:</b> 10.2.2		<b>CLIN:</b> 0001	
<b>Customer Accessibility Criteria:</b>		As required		
<b>Scope:</b>				
<b>Content:</b>	As agreed to by the customer			
<b>Format:</b>				
<b>Guidance Documents:</b>				
<b>Remarks</b>				

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<b>LO&amp;SC ACCESSIBLE DATA PRODUCT DESCRIPTION</b>					
<b>ADP No:</b>	065	<b>OPR/IPT:</b>	Mission	<b>Revision Date</b>	
<b>Product Name</b> Console Level Voice Matrix					
<b>Source:</b>			<b>Basic Program Resp:</b>		
<b>Contract No:</b>			<b>SOW No:</b> 3.10.2.3-2.1		
<b>WBS No:</b> 10.2.3		<b>WBS Subtask No:</b> 10.2.3		<b>CLIN:</b> 0001	
<b>Customer Accessibility Criteria:</b>			As required		
<b>Scope:</b>					
<b>Content:</b>		CLVM for facilities supported by the MCO.			
<b>Format:</b>					
<b>Guidance Documents:</b>					
<b>Remarks</b>					

<b>LO&amp;SC ACCESSIBLE DATA PRODUCT DESCRIPTION</b>					
<b>ADP No:</b>	066	<b>OPR/IPT:</b>	Mission	<b>Revision Date</b>	
<b>Product Name</b> Seating Plan					
<b>Source:</b>			<b>Basic Program Resp:</b>		
<b>Contract No:</b>			<b>SOW No:</b> 3.10.2.3-2.6		
<b>WBS No:</b> 10.2.3		<b>WBS Subtask No:</b> 10.2.3		<b>CLIN:</b> 0001	
<b>Customer Accessibility Criteria:</b>			As required		
<b>Scope:</b>					
<b>Content:</b>		As agreed to by the customer			
<b>Format:</b>					
<b>Guidance Documents:</b>					
<b>Remarks</b>					